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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,036	01/02/2002	Edward T. Grochowski	42P13133	7060

8791 7590 07/08/2004

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EXAMINER

KIM, KENNETH S

ART UNIT PAPER NUMBER

2111

DATE MAILED: 07/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/038,036

Applicant(s)

GROCHOWSKI ET AL.

Examiner

Kenneth S KIM

Art Unit

2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

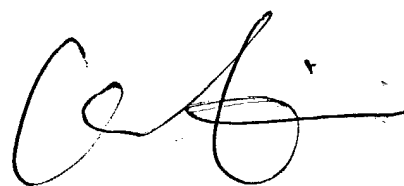
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 June 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 and 23-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 and 23-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.



KENNETH S. KIM
PRIMARY EXAMINER

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

1. Claims 1-11 and 23-25 have been elected for examination and Claims 12-22 and 26-29 have been canceled.
2. The abstract of the disclosure is objected to because the current abstract does not adequately describe the inventive feature of the claimed invention. Correction is required. See MPEP § 608.01(b).

All amended abstracts are to be submitted on a **separate sheet** (without the brackets and underlines) in addition to a mark-up copy.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-11 and 23-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Baker, U.S. Patent No. 5,996,032.

Baker teaches the invention as claimed including a method comprising:

- (a) substantially simultaneously reading values from a plurality of registers (col. 2, line 39; each bit in a multi-bit register addressable separately constitute a separate single bit register, col. 3, line 20),
- (b) parsing a particular instruction, and determining a select number of values in the select number of registers (selected for modification; col. 2, line 38),
- (c) modifying a subset of values in the select number of registers (col. 2, line 40),
- (d) substantially simultaneously writing the values to the plurality of registers (col. 2, line 40, and

further teaches as in claims 2-22,

- (e) wherein entire set of values are collectively read and written by instructions that operate on the entire set of values (entire set can be modified) – claim 2,
- (f) wherein the plurality of registers are predicate registers or NaT registers (can be any number and any type of registers) – claims 2, 3, 10, and 11,
- (g) wherein the instruction is an Itanium instruction selecting up to 63 register to be modified (can be any type of instruction modifying any number of registers) – claims 5-9.

The program product claims 23-25 are equivalently rejected based on the same reason.

5. Claims 1-11 and 23-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Song et al, U.S. Patent No. 5,991,531.

Song et al teaches the invention as claimed including a method comprising:

- (a) substantially simultaneously reading values from a plurality of registers (col. 3, line 30; a vector register is equivalent to a plurality of registers),
- (b) parsing a particular instruction, and determining a select number of values in the select number of registers (col. 3, line 30),
- (c) modifying a subset of values in the select number of registers (col. 5, line 17),
- (d) substantially simultaneously writing the values to the plurality of registers (col. 3, line 32), and

further teaches as in claims 2-22,

- (e) wherein entire set of values are collectively read and written by instructions that operate on the entire set of values (conventional operation of vector instructions) – claim 2,
- (f) wherein the plurality of registers are predicate registers or NaT registers (can be any number and any type of registers) – claims 2, 3, 10, and 11,
- (g) wherein the instruction is an Itanium instruction selecting up to 63 register to be modified (can be any type of instruction modifying any number of registers) – claims 5-9.

The program product claims 23-25 are equivalently rejected based on the same reason.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth S KIM whose telephone number is (703) 305-9693. The examiner can normally be reached on M-F (8:30-17:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

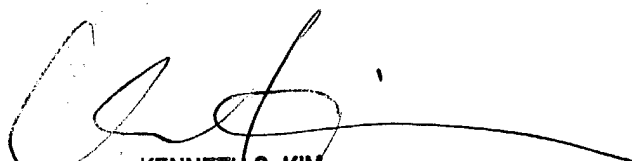
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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

July 6, 2004



KENNETH S. KIM
PRIMARY EXAMINER